



>>Entry Name: 2-Dodecenedioic acid, 9CI

CAS Registry Number: 124-00-5

HOOC(CH<sub>2</sub>)<sub>8</sub>CH=CHCOOH

Molecular Formula: C<sub>12</sub>H<sub>20</sub>O<sub>4</sub>

Molecular Weight: 228.288

Accurate Mass: 228.13616

Percentage Composition: C 63.14%; H 8.83%; O 28.03%

>>Variant: (*E*)-form

Synonym(s): Traumatic acid

CAS Registry Number: 6402-36-4

Type of Compound Code(s): VA0600

Molecular Formula: C<sub>12</sub>H<sub>20</sub>O<sub>4</sub>

Molecular Weight: 228.288

Accurate Mass: 228.13616

Percentage Composition: C 63.14%; H 8.83%; O 28.03%

Biological Source: Isol. from string bean pods

Use/Importance: Plant wound hormone

Melting Point: Mp 166-167°

Boiling Point: Bp<sub>0.001</sub> 150-160°

Solubility: Spar. sol. H<sub>2</sub>O

Aldrich: 17724-5

Fluka: 90200

Sigma: D5638

>>Variant: (*Z*)-form

CAS Registry Number: 6556-35-0

Molecular Formula: C<sub>12</sub>H<sub>20</sub>O<sub>4</sub>

Molecular Weight: 228.288

Accurate Mass: 228.13616

Percentage Composition: C 63.14%; H 8.83%; O 28.03%

Melting Point: Mp 67-68°

Solubility: Spar. sol. H<sub>2</sub>O

#### References:

*Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **1**, 789A, (*nmr*)

*Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **1**, 504A, (*ir*)

English, J. *et al.*, *J.A.C.S.*, 1939, **61**, 3434

Lauer, W.M. *et al.*, *J.A.C.S.*, 1945, **67**, 1171, (*synth*)

Rao, A.S.C.P. *et al.*, *Synthesis*, 1975, 608, (*synth*)

Villemin, D., *Chem. Ind. (London)*, 1986, 36, (*synth*)